



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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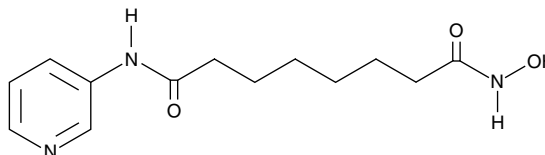
# Product Information



## Pyroxamide

Item No. 13870

**CAS Registry No.:** 382180-17-8  
**Formal Name:** N<sup>1</sup>-hydroxy-N<sup>8</sup>-3-pyridinyl-octanediamide  
**MF:** C<sub>13</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>  
**FW:** 265.3  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 203, 241, 279 nm



### Laboratory Procedures

For long term storage, we suggest that pyroxamide be stored as supplied at -20°C. It should be stable for at least two years.

Pyroxamide is supplied as a crystalline solid. A stock solution may be made by dissolving the pyroxamide in the solvent of choice. Pyroxamide is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of pyroxamide in these solvents is approximately 5 and 2 mg/ml, respectively.

Pyroxamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pyroxamide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Pyroxamide has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Pyroxamide is an inhibitor of histone deacetylases (HDACs), including HDAC1 (IC<sub>50</sub> = 0.1-0.2 μM).<sup>1,2</sup> It induces growth suppression and cell death of certain types of cancer cells in culture.<sup>1,3</sup>

### References

1. Butler, L.M., Webb, Y., Agus, D.B., *et al.* Inhibition of transformed cell growth and induction of cellular differentiation by pyroxamide, an inhibitor of histone deacetylase. *Clin. Cancer Res.* **7**, 962-970 (2001).
2. Remiszewski, S.W., Sambucetti, L.C., Atadja, P., *et al.* Inhibitors of human histone deacetylase: Synthesis and enzyme and cellular activity of straight chain hydroxamates. *J. Med. Chem.* **45**(4), 753-757 (2002).
3. Kutko, M.C., Glick, R.D., Butler, L.M., *et al.* Histone deacetylase inhibitors induce growth suppression and cell death in human rhabdomyosarcoma *in vitro*. *Clin. Cancer Res.* **9**, 5749-5755 (2003).

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For a list of related products please visit: [www.caymanchem.com/catalog/13870](http://www.caymanchem.com/catalog/13870)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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